



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Agency Interest (AI) No.: 33002

Activity No.: PER20070002

Mr. Dan Smallwood  
Operations Manager  
Burlington Resources Oil & Gas Company, LP  
3WL 17084  
PO Box 2197  
Houston, TX 77252

RE: Permit, Bay St. Elaine Central Facility, Burlington Resources Oil & Gas Company, LP,  
Cocodrie, Terrebonne Parish, Louisiana

Dear Mr. Smallwood:

This is to inform you that the permit request for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets, and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Also enclosed is a document entitled "General Information." Please be advised that this document contains a summary of facility-level information contained in LDEQ's TEMPO database and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to [facupdate@la.gov](mailto:facupdate@la.gov).

The permit number cited below and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

Permit No.: 2880-00061-00

Sincerely,

Chuck Carr Brown, Ph.D.  
Assistant Secretary  
CCB:mv

### ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

[WWW.DEQ.LOUISIANA.GOV](http://WWW.DEQ.LOUISIANA.GOV)

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**BURLINGTON RESOURCES OIL & GAS COMPANY, LP**  
**BAY ST. ELAINE CENTRAL FACILITY AND SATELLITE STATION #1**  
**PROPOSED MODIFICATION OF A STATE MINOR AIR OPERATING PERMIT**

The LDEQ, Office of Environmental Services, is accepting written comments on a Modification of a State Minor Air Operating Permit for Burlington Resources Oil & Gas Company, LP, P.O. Box 2197 3WL 17084, Houston, TX 77252-2197 for the Bay St. Elaine Central Facility and Satellite Station #1. **The facility is located 4 miles south of Cocodrie, in Tambour Bay, Terrebonne Parish.**

Burlington Resources Oil & Gas Company, LP requested to modify Bay St. Elaine Central Facility (and Satellite Station #1) which is a typical oil and gas production facility used to treat and handle production from various nearby well completions or facilities.

Production from the Bay St. Elaine U3-58 and U3-42 wells is routed to the low-pressure separator located at this facility. Gas from the low-pressure separator is sent through a scrubber then routed off-site to the Beauchamp Facility (permitted separately) for further processing. Liquids from the low-pressure separator are routed to the free water knockout vessel. Gas from this vessel is also routed off-site to the Beauchamp Facility. Water from the free water knockout vessel is routed to a gun tank for gravity separation and then routed to on-site tanks for storage before being pumped (via electric powered SWD pump) to an injection well for disposal. Oil from the free water knockout vessel is routed to a heater treater for further separation. Oil and any produced water from the heater treater are routed to on-site tanks for storage until pumped off-site (via electric powered oil pump).

Production from the 4-1 well and Oscar Facility is routed to the high-pressure separator. Gas from this separator is routed off-site. Liquids from the high-pressure separator are routed to a bulk low-pressure separator. Gas from this separator is sent through a scrubber then routed off-site to the Beauchamp Facility. Liquids from the low-pressure separator are routed to the above-mentioned free water knockout vessel and treated accordingly. Liquids from the SP2, SP3, SP4, SP5, SP6, and SP7 Facilities is routed to the above-mentioned free water knockout vessel and treated accordingly.

Vapors from the gun barrel, oil and water storage tanks are routed to the control flare for combustion, except during brief intervals when thief hatches are opened for gauging, sampling, etc.

Burlington Resources Oil & Gas Company, LP proposes to modify the Bay St. Elaine Central Facility as follows:

1. The incorporation of the Bay St. Elaine Satellite Station #1.
2. The deletion of five (5) pneumatic pumps, emission sources, 16-95; EQT02, 17-95; EQT03, 18-95; EQT04, 01-07; EQT17, and 02-07; EQT18.
3. The deletion of a heater treater, emission source, TB2; EQT15.
4. The deletion of a flare, emission source, 01-06; EQT19.
5. The deletion of a free-water knock-out tank, emission source, FWKO; EQT20.
6. The addition of two (2) catalytic heaters, emission sources, 19-07-CH-BS and 20-07-CH-BS to the insignificant activities list.
7. The addition of a water suction tank, emission source, 21-07-WST-CV; EQT21.

8. The addition of a control flare, emission source, 22-07-F; EQT22.
9. The addition of two (2) blowcase vessels, emission sources, 23-07-BV; EQT23 and 24-07-BV; EQT24.
10. The addition of a heater treater-waste gas, emission source, 25-07-HT-WG; EQT25.
11. The addition of storage tanks, emission sources, 26-07 CST through 31-07 CST to the insignificant activities list.
12. The addition of a cap which represents the combined emission totals from two (2) generators, emissions sources, G1; EQT05 and G2; EQT06. The operation of these two (2) sources is alternated and the combined runtime will not exceed 11,000 hr/yr.
13. The revision of emission limits from the facility's remaining emission point sources based on updated emission factors and/or current facility conditions..

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Before	After	Change
PM <sub>10</sub>	0.26	0.41	+0.15
SO <sub>2</sub>	0.02	0.04	+0.02
NO <sub>x</sub>	85.32	84.47	-0.85
CO	245.99	86.86	-159.13
VOC	142.34	11.40	-130.94

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Tuesday, March 4, 2008.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application and proposed permit are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at [www.deq.louisiana.gov](http://www.deq.louisiana.gov).**

Additional copies may be reviewed at the Terrebonne Parish Library - Grand Caillou Branch located at 200 Badou Dr., Dulac, LA 70353.

Inquiries or requests for additional information regarding this permit action should be directed to Dr. Marta Vasquez, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3130.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [deqmaillistrequest@la.gov](mailto:deqmaillistrequest@la.gov) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit** can be viewed at the LDEQ permits public notice webpage at [www.deq.louisiana.gov/apps/pubNotice/default.asp](http://www.deq.louisiana.gov/apps/pubNotice/default.asp) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2198/Default.aspx).

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [www.doa.louisiana.gov/oes/listservpage/ldeq\\_pn\\_listserv.htm](http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm)

**All correspondence should specify AI Number 33002, Permit Number 2880-00061-02, and Activity Number PER20070002.**

**Scheduled Publication Date: Tuesday, January 29, 2008.**

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Bay St. Elaine Central Facility**  
**Agency Interest No.: 33002; PER20070002**  
**Burlington Resources Oil & Gas Company, LP**  
**Cocodrie, Terrebonne Parish, Louisiana**

**I. BACKGROUND**

Burlington Resources Oil & Gas Company, LP operates an oil and gas production facility, Bay St. Elaine Central Facility, located 4 miles south of Cocodrie, Louisiana. The facility was originally permitted under Permit No. 2880-00061-V0 dated August 8, 1996, and has operated under Permit No. 2880-00061-V1 dated December 30, 1997, Permit No. 2880-00061-V2 dated October 7, 2000, and Permit No. 2880-00061-V3 dated April 29, 2005. Currently the facility operates under Permit No. 2880-00061-V4 dated April 17, 2007. This permit incorporates the permit for the St. Elaine Satellite Station #1 that has operated under Permit No. 2880-00122-00 dated August 2, 1995.

**II. ORIGIN**

A permit application and Emission Inventory Questionnaire (EIQ) dated September 24, 2007 and additional information dated December 13, 2007 were received requesting a permit.

**III. DESCRIPTION**

The Bay St. Elaine Central Facility (and Satellite Station #1) is a typical oil and gas production facility used to treat and handle production from various nearby well completions or facilities.

Production from the Bay St. Elaine U3-58 and U3-42 wells is routed to the low-pressure separator located at this facility. Gas from the low-pressure separator is sent through a scrubber then routed off-site to the Beauchamp Facility (permitted separately) for further processing. Liquids from the low-pressure separator are routed to the free water knockout vessel. Gas from this vessel is also routed off-site to the Beauchamp Facility. Water from the free water knockout vessel is routed to a gun tank for gravity separation and then routed to on-site tanks for storage before being pumped (via electric powered SWD pump) to an injection well for disposal. Oil from the free water knockout vessel is routed to a heater treater for further separation. Oil and any produced water from the heater treater are routed to on-site tanks for storage until pumped off-site (via electric powered oil pump).

Production from the 4-1 well and Oscar Facility is routed to the high-pressure separator. Gas from this separator is routed off-site. Liquids from the high-pressure separator are routed to a bulk low-pressure separator. Gas from this separator is sent through a scrubber then routed off-site to the Beauchamp Facility. Liquids from the low-pressure separator are routed to the above-mentioned free water knockout vessel and treated accordingly.

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Bay St. Elaine Central Facility**  
**Agency Interest No.: 33002; PER20070002**  
**Burlington Resources Oil & Gas Company, LP**  
**Cocodrie, Terrebonne Parish, Louisiana**

Liquids from the SP2, SP3, SP4, SP5, SP6, and SP7 Facilities is routed to the above-mentioned free water knockout vessel and treated accordingly.

Vapors from the gun barrel, oil and water storage tanks are routed to the control flare for combustion, except during brief intervals when thief hatches are opened for gauging, sampling, etc.

Burlington Resources Oil & Gas Company, LP proposes to modify the Bay St. Elaine Central Facility as follows:

1. The incorporation of the Bay St. Elaine Satellite Station #1.
2. The deletion of five (5) pneumatic pumps, emission sources, 16-95; EQT02, 17-95; EQT03, 18-95; EQT04, 01-07; EQT17, and 02-07; EQT18.
3. The deletion of a heater, treater, emission source, TB2; EQT15.
4. The deletion of a flare, emission source, 01-06; EQT19.
5. The deletion of a free-water knock-out tank, emission source, FWKO; EQT20.
6. The addition of two (2) catalytic heaters, emission sources, 19-07-CH-BS and 20-07-CH-BS to the insignificant activities list.
7. The addition of a water suction tank, emission source, 21-07-WST-CV; EQT21.
8. The addition of a control flare, emission source, 22-07-F; EQT22.
9. The addition of two (2) blowcase vessels, emission sources, 23-07-BV; EQT23 and 24-07-BV; EQT24.
10. The addition of a heater treater-waste gas, emission source, 25-07-HT-WG; EQT25.
11. The addition of storage tanks, emission sources, 26-07 CST through 31-07 CST to the insignificant activities list.
12. The addition of a cap which represents the combined emission totals from two (2) generators, emissions sources, G1; EQT05 and G2; EQT06. The operation of these two (2) sources is alternated and the combined runtime will not exceed 11,000 hr/yr.
13. The revision of emission limits from the facility's remaining emission point sources based on updated emission factors and/or current facility conditions.

There are no facilities under common ownership and contiguous with Bay St. Elaine Central Facility.

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Bay St. Elaine Central Facility**  
**Agency Interest No.: 33002; PER20070002**  
**Burlington Resources Oil & Gas Company, LP**  
**Cocodrie, Terrebonne Parish, Louisiana**

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Before	After	Change
PM <sub>10</sub>	0.26	0.41	+0.15
SO <sub>2</sub>	0.02	0.04	+0.02
NO <sub>x</sub>	85.32	84.47	-0.85
CO	245.99	86.86	-159.13
VOC*	142.34	11.40	-130.94

**\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
2,2,4-Trimethylpentane	1.32	0.07	-1.25
Acetaldehyde	0.08	-	-0.08
Benzene	0.36	0.17	-0.19
Ethyl benzene	0.04	0.01	-0.03
Formaldehyde	0.68	0.26	-0.42
Methanol	-	0.03	+0.03
n-Hexane	1.65	0.29	-1.36
Toluene	0.32	0.13	-0.19
Xylenes (mixed isomers)	0.24	0.04	-0.20
Total	4.69	1.00	-3.69

#### IV. TYPE OF REVIEW

This permit was reviewed for compliance with Louisiana Air Quality Regulations. New Source Performance Standards (NSPS), Prevention of Significant Deterioration (PSD) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply.

This facility is a minor source of LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs).

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Bay St. Elaine Central Facility  
Agency Interest No.: 33002; PER20070002  
Burlington Resources Oil & Gas Company, LP  
Cocodrie, Terrebonne Parish, Louisiana**

**V. PUBLIC NOTICE**

This permit includes a combined operating maximum time of 11,000 hrs/yr for the internal combustion engines. For this reason a public notice is required.

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on XXX XX, 2008; and in the *Houma Daily Courier*, on XXX XX, 2008. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on XXX XX, 2008. All comments will be considered prior to the final permit decision.

**VI. EFFECTS ON AMBIENT AIR**

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Ambient Air Quality Standard (NAAQS)

**VII. GENERAL CONDITION XVII ACTIVITIES**

There are no general condition XVII activities at this site.

**VIII. INSIGNIFICANT ACTIVITIES**

ID No.:	Description	Max Rate or Tank Capacity	Citation
TB1	Heater Treater	1.0 MM Btu/hr	LAC 33:III.B.501.A.1
19-07-CH-BS	Catalytic Heater	3000 Btu/hr	LAC 33:III.B.501.A.1
20-07-CH-BS	Catalytic Heater	3000 Btu/hr	LAC 33:III.B.501.A.1
26-07-CST	Storage Tank	525 gal	LAC 33:III.B.501.A.3
27-07-CST	Storage Tank	200 gal	LAC 33:III.B.501.A.2
28-07-CST	Storage Tank	330 gal	LAC 33:III.B.501.A.3
29-07-LOT	Storage Tank	330 gal	LAC 33:III.B.501.A.3
30-07-CST	Storage Tank	1200 gal	LAC 33:III.B.501.A.2
30-07-SUMP	Sump Tanks (3)	120 gal	LAC 33:III.B.501.A.3
31-07-CST	Storage Tanks (4)	120 gal	LAC 33:III.B.501.A.2

All insignificant activities shall meet the requirements to submit emission inventory data to comply with LAC 33:III.919 – Emission Inventory.



**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.

II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.

III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated September 24, 2007 along with supplemental information dated December 13, 2007.

IV. This permit shall become invalid, for the sources not constructed, if:

- A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
- B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:

1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

D. Each report submitted in accordance with this condition shall contain the following information:

1. Description of noncomplying emission(s);
2. Cause of noncompliance;
3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.

E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.

XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.

XVII. Very small emissions to the air resulting from routine operations; that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

# General Information

AI ID: 33002 Bay St Elaine Central Facility & Satellite Station #1  
 Activity Number: PER20070002  
 Permit Number: 2880-00061-00  
 Air - Minor (Synthetic) Initial

Also Known As:	ID	Name	User Group	Start Date
	2880-00061	Bay St Elaine Central Facility	CDS Number	10-07-2000
	LAG33A340	LPDES #	LPDES Permit #	02-20-2006
		Burlington Resource Oil & Gas Co LP	Multimedia	03-01-2004

Physical Location: 4 Mi S of Cocodrie, LA 70000 Main FAX: 7136245426 Main Phone: 7136849639

Mailing Address: PO Box 2197  
 Attn: Manager L48 Gulf Coast HSE  
 Houston, TX 772522197

Location of Front Gate: 29° 11' 20" latitude, 90° 40' 0" longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD83

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Dan Smallwood	PO Box 2197 3WL 17084 Houston, TX 772522197	Dan.D.Smallwood@	Responsible Official for
	Dan Smallwood	PO Box 2197 3WL 17084 Houston, TX 772522197	8324862137 (WP)	Responsible Official for
	Dan Van Metre	PO Box 2197 3WL 15058 Houston, TX 772522197	daniel.j.vanmetre@c	Emission Inventory Contact for
	Dan Van Metre	PO Box 2197 3WL 15058 Houston, TX 772522197	8324862283 (WP)	Emission Inventory Contact for
	Kent Weissling	717 Texas St Ste 2100 Houston, TX 77002		Water Permit Contact For
	Kent Weissling	717 Texas St Ste 2100 Houston, TX 77002		Air Permit Contact For

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Burlington Resources Oil & Gas Co LP	PO Box 2197 Houston, TX 772522197		Owns
	Burlington Resources Oil & Gas Co LP	PO Box 2197 Houston, TX 772522197		Operates
	Burlington Resources Oil & Gas Co LP	PO Box 2197 Houston, TX 772522197		Water Billing Party for
	Burlington Resources Oil & Gas Co LP	PO Box 2197 Houston, TX 772522197		Emission Inventory Billing Party
	Burlington Resources Oil & Gas Co LP	PO Box 2197 Houston, TX 772522197		Air Billing Party for

NAIC Codes: 211111, Crude Petroleum and Natural Gas Extraction

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

# INVENTORIES

AI ID: 33002 - Bay St Elaine Central Facility & Satellite Station #1

Activity Number: PER20070002

Permit Number: 2880-00061-00

Air - Minor (Synthetic) Initial

## Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Entire Facility</b>						
EQT0001	14-95 - Skimmed Oil Collection Tank	13 bbl	1825 bbl/yr		The combined annual runtime will not exceed 11,000 hours per year.	8760 hr/yr (All Year)
EQT0005	G1 - Generator Engine No. 1		421 horsepower			(None Specified)
EQT0006	G2 - Generator Engine No. 2		423 horsepower		The combined annual runtime will not exceed 11,000 hours per year.	(None Specified)
EQT0007	PC1 - Pollution Control Surge Tank No. 1	1500 bbl	1.83 MM bbl/yr			8760 hr/yr (All Year)
EQT0008	PC2 - Pollution Control Surge Tank No. 2	1500 bbl	1.63 MM bbl/yr			8760 hr/yr (All Year)
EQT0009	ST1 - Crude Oil Tank No. 1	1000 bbl	365000 bbl/yr			8760 hr/yr (All Year)
EQT0010	ST2 - Crude Oil Tank No. 2	1000 bbl	365000 bbl/yr			8760 hr/yr (All Year)
EQT0021	21-07-WST-CV - 180 BBL Water Suction Tank-Common Vent	180 bbl	195640 bbl/yr			8760 hr/yr (All Year)
EQT0022	22-07-F - Control Flare		27.8 MM scf/yr			8760 hr/yr (All Year)
EQT0023	23-07-BV - Blowcase Vessel (Flare Scrubber Skid Fluids)		2190 gallons/yr			8760 hr/yr (All Year)
EQT0024	24-07-BV - Blowcase Vessel (SWD Pump Skid Fluids)		29200 gallons/yr			8760 hr/yr (All Year)
EQT0025	25-07-HT-WG - Heater Treater-Waste Gas		11 MM scf/yr			8760 hr/yr (All Year)
FUG0001	15-95 - Fugitive Emissions - Pneumatic Valves					8760 hr/yr (All Year)
FUG0002	FT1 - Fugitive Emissions - Valves and Fittings					8760 hr/yr (All Year)

## Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Entire Facility</b>							
EQT0001	14-95 - Skimmed Oil Collection Tank						
EQT0005	G1 - Generator Engine No. 1	82	1895	.7		30	1000
EQT0006	G2 - Generator Engine No. 2	82	1904	.7		30	1000
EQT0007	PC1 - Pollution Control Surge Tank No. 1						
EQT0008	PC2 - Pollution Control Surge Tank No. 2						
EQT0009	ST1 - Crude Oil Tank No. 1						
EQT0010	ST2 - Crude Oil Tank No. 2						
EQT0022	22-07-F - Control Flare	996	4223	.3		25	1500
EQT0023	23-07-BV - Blowcase Vessel (Flare Scrubber Skid Fluids)	48	.9	.02		2	70
EQT0024	24-07-BV - Blowcase Vessel (SWD Pump Skid Fluids)	4.8	.09	.02		2	70
EQT0025	25-07-HT-WG - Heater Treater-Waste Gas						70

## Relationships:

ID	Description	Relationship	ID	Description
EQT0001	14-95 - Skimmed Oil Collection Tank	Controlled by	EQT0022	22-07-F - Control Flare
EQT0007	PC1 - Pollution Control Surge Tank No. 1	Controlled by	EQT0022	22-07-F - Control Flare

# INVENTORIES

AI ID: 33002 - Bay St Elaine Central Facility & Satellite Station #1

Activity Number: PER20070002

Permit Number: 2880-00061-00

Air - Minor (Synthetic) Initial

## Relationships:

ID	Description	Relationship	ID	Description
EQT0008	PC2 - Pollution Control Surge Tank No. 2	Controlled by	EQT0022	22-07-F - Control Flare
EQT0009	ST1 - Crude Oil Tank No. 1	Controlled by	EQT0022	22-07-F - Control Flare
EQT0010	ST2 - Crude Oil Tank No. 2	Controlled by	EQT0022	22-07-F - Control Flare
EQT0021	21-07-WST-CV - 180 BBL Water Suction Tank-Common Vent	Controlled by	EQT0022	22-07-F - Control Flare
EQT0025	25-07-HT-WG - Heater Treater-Waste Gas	Controlled by	EQT0022	22-07-F - Control Flare

## Subject Item Groups:

ID	Group Type	Group Description
GRP0002	Equipment Group	CAP1 - Internal Combustion Engine-Exhaust Stack (Generator)
UNF0001	Unit or Facility Wide	UNF - Entire Facility

## Group Memberships:

ID	Description	Member of Groups
EQT0005	G1 - Generator Engine No. 1	GRP0000000002
EQT0006	G2 - Generator Engine No. 2	GRP0000000002

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

## Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0042	Crude Oil and Natural Gas Production (250 T/Yr to 500 T/Yr Source)		

## SIC Codes:

1311	Crude petroleum and natural gas	A133002
------	---------------------------------	---------



# EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 33002 - Bay St Elaine Central Facility & Satellite Station #1

Activity Number: PER20070002

Permit Number: 2880-00061-00

Air - Minor (Synthetic) Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Entire Facility															
EQT 0005 G1		18.65			18.65			0.06			0.006			0.31	
EQT 0006 G2		18.65			18.65			0.06			0.006			0.31	
EQT 0022 22-07-F	1.09	1.09	4.78	0.55	0.55	2.39	0.03	0.03	0.15	0.005	0.005	0.02	0.83	0.83	3.63
EQT 0023 23-07-BV														0.10	
EQT 0024 24-07-BV													0.01	0.01	0.03
FUG 0001 15-95													1.01	1.01	4.42
FUG 0002 F11													0.45	0.45	1.97
GRP 0002 CAP1	18.74		82.08	18.74		82.08	0.06		0.26	0.005		0.02	0.31		1.35

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

# EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 33002 - Bay St Elaine Central Facility & Satellite Station #1

Activity Number: PER20070002

Permit Number: 2880-00061-00

Air - Minor (Synthetic) Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0005 G1	Benzene		0.03	
	Formaldehyde		0.07	
	Methanol		0.005	
	Toluene		0.005	
	Xylene (mixed isomers)		0.001	
EQT 0006 G2	Benzene		0.03	
	Formaldehyde		0.07	
	Methanol		0.005	
	Toluene		0.005	
	Xylene (mixed isomers)		0.001	
EQT 0022 22-07-F	2,2,4-Trimethylpentane	0.01	0.01	0.02
	Benzene	0.002	0.002	0.01
	Ethyl benzene	0.002	0.002	0.01
	Toluene	0.002	0.002	0.01
	Xylene (mixed isomers)	0.002	0.002	0.01
	n-Hexane	0.02	0.02	0.10
FUG 0001 15-95	2,2,4-Trimethylpentane	0.01	0.01	0.04
	Benzene	0.01	0.01	0.04
	Toluene	0.01	0.01	0.04
	Xylene (mixed isomers)	0.002	0.002	0.01
	n-Hexane	0.04	0.04	0.17
FUG 0002 FT1	2,2,4-Trimethylpentane	0.002	0.002	0.01
	Benzene	0.002	0.002	0.01
	Toluene	0.01	0.01	0.04
	Xylene (mixed isomers)	0.002	0.002	0.01
	n-Hexane	0.005	0.005	0.02
GRP 0002 CAP1	Benzene	0.025		0.11
	Formaldehyde	0.06		0.26
	Methanol	0.01		0.03
	Toluene	0.01		0.04
	Xylene (mixed isomers)	0.002		0.01
UNF 0001 UNF	2,2,4-Trimethylpentane			0.07
	Benzene			0.17
	Ethyl benzene			0.01

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 33002 - Bay St Elaine Central Facility & Satellite Station #1

Activity Number: PER20070002

Permit Number: 2880-00061-00

Air - Minor (Synthetic) Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001 UNF	Formaldehyde			0.26
	Methanol			0.03
	Toluene			0.13
	Xylene (mixed isomers)			0.04
	n-Hexane			0.29

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

## **SPECIFIC REQUIREMENTS**

AI ID: 33002 - Bay St Elaine Central Facility & Satellite Station #1

Activity Number: PER20070002

Permit Number: 2880-00061-00

Air - Minor (Synthetic) Initial

### **EQT0009 ST1 - Crude Oil Tank No. 1**

- 1 [LAC 33:III.2104.C.1] Flash gas: VOC, Total  $\geq$  95 % reduction.  
Which Months: All Year Statistical Basis: None specified
- 2 [LAC 33:III.2104.C] Install a vapor recovery system that directs vapors to a fuel gas system, a sales gas system, an underground gas injection system, or a control device.
- 3 [LAC 33:III.2104.E] Achieve compliance by the appropriate date specified in LAC 33:III.2104.E. Comply with the requirements of LAC 33:III.2104 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2104 as a result of a revision to LAC 33:III.2104.
- 4 [LAC 33:III.2104.G] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2104.G.1 and 5.

### **EQT0010 ST2 - Crude Oil Tank No. 2**

- 5 [LAC 33:III.2104.C.1] Flash gas: VOC, Total  $\geq$  95 % reduction.  
Which Months: All Year Statistical Basis: None specified
- 6 [LAC 33:III.2104.C] Install a vapor recovery system that directs vapors to a fuel gas system, a sales gas system, an underground gas injection system, or a control device.
- 7 [LAC 33:III.2104.E] Achieve compliance by the appropriate date specified in LAC 33:III.2104.E. Comply with the requirements of LAC 33:III.2104 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2104 as a result of a revision to LAC 33:III.2104.
- 8 [LAC 33:III.2104.G] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2104.G.1 and 5.

### **FUG0002 FT1 - Fugitive Emissions - Valves and Fittings**

- 9 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

### **GRP0002 CAP1 - Internal Combustion Engine-Exhaust stack (Generator)**

Group Members: EQT0005 EQT0006

- 10 [LAC 33:III.1311.C] Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: Six-minute average
- 11 [LAC 33:III.501.C.6] Operating time  $\leq$  11000 hr/yr Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance. Enforcement Division if the total combined operating time for both generators exceeds the maximum listed in this specific condition for any twelve consecutive month period.  
Which Months: All Year Statistical Basis: Annual maximum

## SPECIFIC REQUIREMENTS

AI ID: 33002 - Bay St Elaine Central Facility & Satellite Station #1

Activity Number: PER20070002

Permit Number: 2880-00061-00

Air - Minor (Synthetic) Initial

### GRP0002 CAP1 - Internal Combustion Engine-Exhaust stack (Generator)

12 [LAC 33:III.501.C.6]

Operating time Submit report: Due annually, by the 31st of March. Report the total combined operating time for both generators for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

13 [LAC 33:III.501.C.6]

Operating time monitored by technically sound method continuously.

14 [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

Operating time recordkeeping by electronic or hard copy monthly. Keep records of the total combined operating time for both generators each month, as well as the total combined operating time for both generators for the last twelve months. Make records available for inspection by LDEQ personnel.

### UNF0001 Entire Facility

15 [LAC 33:III.1103]

Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.

16 [LAC 33:III.1109.B]

Outdoor burning of waste material or other combustible material is prohibited.

17 [LAC 33:III.1303.B]

Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.

18 [LAC 33:III.2113.A]

Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.

19 [LAC 33:III.219]

Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.

20 [LAC 33:III.5611.A]

Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution

Emergency: Due within 30 days after requested by the administrative authority.

21 [LAC 33:III.5611.B]

During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.